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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	5.33	28.30

FILE 'MEDLINE' ENTERED AT 14:37:42 ON 10 MAY 2004

FILE LAST UPDATED: 10 MAY 2004 (20040510/UP). FILE COVERS 1951 TO DATE.

On February 29, 2004, the 2004 MeSH terms were loaded. See HELP RLOAD for details. OLD MEDLINE now back to 1951.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See <http://www.nlm.nih.gov/mesh/> and http://www.nlm.nih.gov/pubs/techbull/nd03/nd03_mesh.html for a description of changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s disposable (7a) prefilter
      6860 DISPOSABLE
      92 PREFILTER
L10      0 DISPOSABLE (7A) PREFILTER
```

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.38	28.68

STN INTERNATIONAL LOGOFF AT 14:38:02 ON 10 MAY 2004

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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated
 and searchable
 NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
 CA/CAplus
 NEWS 5 FEB 05 German (DE) application and patent publication number format
 changes
 NEWS 6 MAR 03 MEDLINE and LMEEDLINE reloaded
 NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
 NEWS 8 MAR 03 FRANCEPAT now available on STN
 NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN
 NEWS 10 MAR 29 WPIFV now available on STN
 NEWS 11 MAR 29 No connect hour charges in WPIFV until May 1, 2004
 NEWS 12 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
 NEWS 13 APR 26 PROMT: New display field available
 NEWS 14 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field
 available
 NEWS 15 APR 26 LITALERT now available on STN
 NEWS 16 APR 27 NLDB: New search and display fields available

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004

NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
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 NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:32:38 ON 10 MAY 2004

=> file uspatfull

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'USPATFULL' ENTERED AT 14:32:46 ON 10 MAY 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 6 May 2004 (20040506/PD)

FILE LAST UPDATED: 6 May 2004 (20040506/ED)

HIGHEST GRANTED PATENT NUMBER: US6732373

HIGHEST APPLICATION PUBLICATION NUMBER: US2004088770

CA INDEXING IS CURRENT THROUGH 6 May 2004 (20040506/UPCA)

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ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 6 May 2004 (20040506/PD)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2004
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2004

```
>>> USPAT2 is now available.  USPATFULL contains full text of the  <<<
>>> original, i.e., the earliest published granted patents or  <<<
>>> applications.  USPAT2 contains full text of the latest US  <<<
>>> publications, starting in 2001, for the inventions covered in  <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent  <<<
>>> publications.  The publication number, patent kind code, and  <<<
>>> publication date for all the US publications for an invention  <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL  <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.  <<<
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>>> USPATFULL and USPAT2 can be accessed and searched together  <<<
>>> through the new cluster USPATALL.  Type FILE USPATALL to  <<<
>>> enter this cluster.  <<<
>>>  <<<
>>> Use USPATALL when searching terms such as patent assignees,  <<<
>>> classifications, or claims, that may potentially change from  <<<
>>> the earliest to the latest publication.  <<<
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s dispos? (3a) filter
    1274277 DISPOS?
    545558 FILTER
L1    23301 DISPOS? (3A) FILTER

=> s l1 (p) (DNA or plasmid or nucleic) (3a) (purif?)
    104492 DNA
    57430 PLASMID
    78300 NUCLEIC
    308958 PURIF?
```

```
L2    5 L1 (P) (DNA OR PLASMID OR NUCLEIC) (3A) (PURIF?)
```

```
=> d 1-5 ti
```

```
L2    ANSWER 1 OF 5  USPATFULL on STN
TI    Automatic DNA purification apparatus

L2    ANSWER 2 OF 5  USPATFULL on STN
TI    Apparatus, methods and compositions for biotechnical separations

L2    ANSWER 3 OF 5  USPATFULL on STN
TI    Process and apparatus for the extraction and purification of DNA

L2    ANSWER 4 OF 5  USPATFULL on STN
TI    Cartridge for preparing purified nucleic acids

L2    ANSWER 5 OF 5  USPATFULL on STN
TI    Process and apparatus for the extraction and purification of DNA
```

```
=> d 1-5 bib kwic
```

```
L2    ANSWER 1 OF 5  USPATFULL on STN
Full Text
AN    2003:108829  USPATFULL
```

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TI Automatic DNA purification apparatus
 IN Park, Han-Oh, Chungcheongbukdo, KOREA, REPUBLIC OF
 Park, Han-Ee, Chungcheongbukdo, KOREA, REPUBLIC OF
 Kwon, Nam-Sun, Chungcheongbukdo, KOREA, REPUBLIC OF
 Joung, In-Suk, Chungcheongbukdo, KOREA, REPUBLIC OF
 PA Biioneer Corporation, Chungcheongbukdo, KOREA, REPUBLIC OF (non-U.S.
 corporation)
 PI US 6551556 B1 20030422
 AI US 2000-676505 20001002 (9)
 PRAI KR 1999-42455 19991002
 KR 2000-15206 20000324
 KR 2000-56037 20000923
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Warden, Jill; Assistant Examiner: Sines, Brian
 LREP Birch, Stewart, Kolasch Birch, LLP
 CLMN Number of Claims: 5
 ECL Exemplary Claim: 1
 DRWN 6 Drawing Figure(s); 6 Drawing Page(s)
 LN.CNT 452
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 DETD Then, the recovering **filter** plate is **disposed** in lower part of
 inside of vacuum container (42). The second filter plate which contains
 plasmid DNA thus dried, is **disposed** over said recovering **filter**
 plate. Through injection needles (26), elution buffer such as Tris-HCl
 solution are injected into each well of the second filter plate in order
 to desorb plasmid DNA from binding filter. Then, vacuum block (41) is
 operated to collect **purified plasmid DNA** into the recovering plate.

L2 ANSWER 2 OF 5 USPATFULL on STN

Full Text

AN 2002:17265 USPATFULL
 TI Apparatus, methods and compositions for biotechnical separations
 IN Willson, Richard C., III, Houston, TX, UNITED STATES
 Murphy, Jason, Houston, TX, UNITED STATES
 PI US 2002010145 A1 20020124
 AI US 2001-841763 A1 20010424 (9)
 RLI Continuation-in-part of Ser. No. US 2000-609996, filed on 3 Jul 2000,
 PENDING
 PRAI US 1999-143768P 19990712 (60)
 DT Utility
 FS APPLICATION
 LREP RICHARD COALE WILLSON JR, 3205 HARVEST MOON DR, STE 200, PALM HARBOR,
 FL, 34683-2127
 CLMN Number of Claims: 20
 ECL Exemplary Claim: 1
 DRWN 10 Drawing Page(s)
 LN.CNT 2006
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 DETD . . . Then approximately 10 mL of TE (10 mM Tris HCl, 1 mM EDTA, pH
 8.0) is used to resuspend the **purified plasmid DNA**. The filter
 used in this experiment is a Corning Brand **disposable** vacuum filter
 with a 45 um cellulose acetate filter. These separations will also work
 with other filters as long as the filters. . .

L2 ANSWER 3 OF 5 USPATFULL on STN

Full Text

AN 1998:127830 USPATFULL
 TI Process and apparatus for the extraction and purification of DNA
 IN Fujishiro, Masatoshi, Tokyo, Japan
 Togashi, Akio, Tokyo, Japan
 Tani, Youichiro, Tokyo, Japan

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Ishii, Takamaro, Tokyo, Japan
 PA Tomy Seiko Co., Ltd., Tokyo, Japan (non-U.S. corporation)
 PI US 5824224 19981020
 AI US 1997-796949 19970207 (8)
 RLI Continuation of Ser. No. US 1996-582700, filed on 4 Jan 1996, now patented, Pat. No. US 5645723
 PRAI JP 1995-199391 19950804
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Fortuna, Ana
 LREP Bell Seltzer Intellectual Property Law Group of Alston Bird LLP
 CLMN Number of Claims: 3
 ECL Exemplary Claim: 1
 DRWN 23 Drawing Figure(s); 15 Drawing Page(s)
 LN.CNT 533

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An object of the present invention is to carry out the extraction and **purification** of **DNA** in a short period of time. This object is accomplished by **DNA** extraction and **purification** apparatus illustrated in the drawing. This apparatus includes a pipetting unit which can be horizontally moved along a rail by. . . transfer device. This apparatus also includes tube racks which can be moved horizontally and vertically. In these tube racks are **disposed** filter tubes (not shown) for the extraction and **purification** of **DNA**. Moreover, a waste liquid vat and a recovery vat are disposed below these tube racks. The waste liquid vat and. . .

SUMM The above object is accomplished by a process for the extraction and **purification** of **DNA** which comprises the steps of (a) moving a first tube rack having at least one first filter tube **disposed** therein and a second tube rack having at least one second filter tube **disposed** therein by means of transfer devices, so as to lay one of said tube racks on top of the other. . .

DETD As shown in FIG. 7, **DNA** extraction and **purification** apparatus 1 also includes a recovery vat 47 disposed adjacent to waste liquid vat 44. Disposed in this recovery vat. . . near to holes c. The positions at which these recovery tubes 49 are disposed correspond to the positions at which filter tubes 54 are **disposed** in tube rack 12 (i.e., the positions of holes b occupied by filter tubes 54), and holes c have substantially. . .

CLM What is claimed is:

1. A process for the extraction and **purification** of **DNA** which comprises the steps of (a) moving a first tube rack having at least one first filter tube **disposed** therein and a second tube rack having at least one second filter tube **disposed** therein by means of transfer devices, so as to lay one of said tube racks on top of the other. . .
2. Apparatus for the extraction and **purification** of **DNA** which comprises: a first tube rack having disposed therein at least one first filter tube for the extraction and **purification** of **DNA**; a second tube rack having disposed therein at least one second filter tube for the extraction and **purification** of **DNA**; a vacuum device for applying suction to the filters included in said first and second filter tubes; and at least one tube detection sensor for judging whether or not said first and second filter tubes are **disposed** in said first and second tube racks according to the predetermined protocols.

3. Apparatus for the extraction and **purification** of **DNA** which comprises: a first tube rack having disposed therein at least one first filter tube for the extraction and **purification** of **DNA**; a second tube rack having disposed therein at least one second filter tube for the extraction and **purification** of **DNA**; a vacuum device for applying

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suction to the filters included in said first and second filter tubes;
and a recovery. . .

L2 ANSWER 4 OF 5 USPATFULL on STN

Full Text

AN 1998:91870 USPATFULL
TI Cartridge for preparing purified nucleic acids
IN Boquet, Jean, Le Perray-en-Yvelines, France
PA Bertin Cie, Plaisir, France (non-U.S. corporation)
PI US 5789243 19980804
WO 9514086 19950526
AI US 1996-637713 19960501 (8)
WO 1994-FR1327 19941115
19960501 PCT 371 date
19960501 PCT 102(e) date
PRAI FR 1993-13621 19931116
DT Utility
FS Granted
EXNAM Primary Examiner: Beisner, William H.
LREP Bell Seltzer Intellectual Property Law Group of Alston Bird
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 352

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a cartridge for preparing **purified nucleic acids** obtained from a sample of cells, the cartridge comprises a **filter tube disposed** inside a dialysis tube, the ends of the tubes are mounted in endpieces that are interconnected by rigid uprights, the.

SUMM To this end, the invention provides a cartridge for preparing **purified nucleic acids**, the cartridge comprising a dialysis enclosure, insertion means for inserting a sample of cells and reaction substances into said enclosure, discharge means for discharging reaction substances and **purified nucleic acids**, and a filter for retaining cell nuclei, the **filter being disposed** inside the dialysis enclosure, the cartridge being characterized in that the filter and the dialysis enclosure are constituted by a. . .

CLM What is claimed is:
1. A cartridge for preparing **purified nucleic acids**, the cartridge comprising: a dialysis enclosure in the form of a flexible tube, the tube being open at both ends; a flexible filter tube for retaining cell nuclei, said **filter tube being disposed** inside the dialysis enclosure, the filter tube being open at one end and closed at the other; and endpieces mounting. . . for insertion of a sample of cells and reaction substances into said filter tube and for discharging reaction substances and **purified nucleic acids** from said filter tube and said dialysis enclosure.

L2 ANSWER 5 OF 5 USPATFULL on STN

Full Text

AN 97:58790 USPATFULL
TI Process and apparatus for the extraction and purification of DNA
IN Fujishiro, Masatoshi, Tokyo, Japan
Togashi, Akio, Tokyo, Japan
Tani, Youichiro, Tokyo, Japan
Ishii, Takamaro, Tokyo, Japan
PA Tomy Seiko Co., Ltd., Tokyo, Japan (non-U.S. corporation)
PI US 5645723 19970708
AI US 1996-582700 19960104 (8)
PRAI JP 1995-199391 19950804

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DT Utility
 FS Granted
 EXNAM Primary Examiner: Fortuna, Ana
 CLMN Number of Claims: 9
 ECL Exemplary Claim: 1
 DRWN 23 Drawing Figure(s); 15 Drawing Page(s)
 LN.CNT 547

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An object of the present invention is to carry out the extraction and **purification** of **DNA** in a short period of time. This object is accomplished by **DNA** extraction and **purification** apparatus illustrated in the drawing. This apparatus includes a pipetting unit which can be horizontally moved along a rail by. . . transfer device. This apparatus also includes tube racks which can be moved horizontally and vertically. In these tube racks are **disposed** filter tubes (not shown) for the extraction and **purification** of **DNA**. Moreover, a waste liquid vat and a recovery vat are disposed below these tube racks. The waste liquid vat and. . .

SUMM The above object is accomplished by a process for the extraction and **purification** of **DNA** which comprises the steps of (a) moving a first tube rack having at least one first filter tube **disposed** therein and a second tube rack having at least one second filter tube **disposed** therein by means of transfer devices, so as to lay one of said tube racks on top of the other. . .

DETD As shown in FIG. 7, **DNA** extraction and **purification** apparatus 1 also includes a recovery vat 47 disposed adjacent to waste liquid vat 44. Disposed in this recovery vat. . . near to holes c. The positions at which these recovery tubes 49 are disposed correspond to the positions at which filter tubes 54 are **disposed** in tube rack 12 (i.e., the positions of holes b occupied by filter tubes 54), and holes c have substantially. . .

=> d his

(FILE 'HOME' ENTERED AT 14:32:38 ON 10 MAY 2004)

FILE 'USPATFULL' ENTERED AT 14:32:46 ON 10 MAY 2004

L1 23301 S DISPOS? (3A) FILTER

L2 5 S L1 (P) (DNA OR PLASMID OR NUCLEIC) (3A) (PURIF?)

=> s disposable (5a) filter#

61 DIPOSABLE

599460 FILTER#

L3 1 DIPOSABLE (5A) FILTER#

=> s disposable (5a) filter#

83705 DISPOSABLE

599460 FILTER#

L4 2991 DISPOSABLE (5A) FILTER#

=> s 14 and (DNA or nucleic or plasmid) (9a) purif?

104492 DNA

78300 NUCLEIC

57430 PLASMID

308958 PURIF?

36098 (DNA OR NUCLEIC OR PLASMID) (9A) PURIF?

L5 118 L4 AND (DNA OR NUCLEIC OR PLASMID) (9A) PURIF?

=> s 14 (p) (DNA or nucleic or plasmid) (9a) purif?

104492 DNA

78300 NUCLEIC

STN Columbus

57430 PLASMID
308958 PURIF?

L6 1 L4 (P) (DNA OR NUCLEIC OR PLASMID) (9A) PURIF?

=> d bib ab

L6 ANSWER 1 OF 1 USPATFULL on STN

Full Text

AN 2002:17265 USPATFULL
TI Apparatus, methods and compositions for biotechnical separations
IN Willson, Richard C., III, Houston, TX, UNITED STATES
Murphy, Jason, Houston, TX, UNITED STATES
PI US 2002010145 A1 20020124
AI US 2001-841763 A1 20010424 (9)
RLI Continuation-in-part of Ser. No. US 2000-609996, filed on 3 Jul 2000,
PENDING
PRAI US 1999-143768P 19990712 (60)
DT Utility
FS APPLICATION
LREP RICHARD COALE WILLSON JR, 3205 HARVEST MOON DR, STE 200, PALM HARBOR,
FL, 34683-2127
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 10 Drawing Page(s)
LN.CNT 2006
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB embodiments of the invention include purification of DNA, preferably
plasmid DNA, by use of selective precipitation, preferably by addition
of compaction agents Also included is a scaleable method for the
liquid-phase separation of DNA from RNA. RNA may also be recovered by
fractional precipitation according to the invention. RNA, commonly the
major contaminant in DNA preparations, can be left in solution while
valuable purified plasmid DNA is directly precipitated. Endotoxin can
also be kept to very low levels. The invention includes mini-preps,
preferably of plasmid and chromosomal DNA to obtain sequenceable and
restriction digestible DNA in high yields in multiple simultaneous
procedures. As a method of assay, a labeled probe is precipitated by
hybridizing it to a target, (erg. chromosomal DNA, oligonucleotides,
Ribosomal RNA, tRNA), and thereafter precipitating the probe/target
complex with compaction agents and leaving in solution any unhybridized
probe.

=> d kwic

L6 ANSWER 1 OF 1 USPATFULL on STN

DETD . . . Then approximately 10 mL of TE (10 mM Tris HCl, 1 mM EDTA, pH
8.0) is used to resuspend the **purified plasmid DNA**. The filter
used in this experieiment is a Corning Brand **disposable** vacuum filter
with a 45 um cellulose acetate filter. These separations will also work
with other filters as long as the filters. . .

=> d his

(FILE 'HOME' ENTERED AT 14:32:38 ON 10 MAY 2004)

FILE 'USPATFULL' ENTERED AT 14:32:46 ON 10 MAY 2004

L1 23301 S DISPOS? (3A) FILTER
L2 5 S L1 (P) (DNA OR PLASMID OR NUCLEIC) (3A) (PURIF?)
L3 1 S DIPOSABLE (5A) FILTER#
L4 2991 S DISPOSABLE (5A) FILTER#

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L5 118 S L4 AND (DNA OR NUCLEIC OR PLASMID) (9A) PURIF?
 L6 1 S L4 (P) (DNA OR NUCLEIC OR PLASMID) (9A) PURIF?

=> s l5 and prefilter?

4572 PREFILTER?

L7 5 L5 AND PREFILTER?

=> d 1-5 ti

L7 ANSWER 1 OF 5 USPATFULL on STN

TI Diagnostic assays for detection of Giardia lamblia

L7 ANSWER 2 OF 5 USPATFULL on STN

TI DIAGNOSTIC ASSAYS FOR DETECTION OF CRYPTOSPORIDIUM PARVUM

L7 ANSWER 3 OF 5 USPATFULL on STN

TI Diagnostic assays for detection of Entamoeba histolytica

L7 ANSWER 4 OF 5 USPATFULL on STN

TI Diagnostic assays for detection of Entamoeba histolytica

L7 ANSWER 5 OF 5 USPATFULL on STN

TI Method of isolating and purifying a biomacromolecule

=> d 5 bib ab

L7 ANSWER 5 OF 5 USPATFULL on STN

Full Text

AN 95:103609 USPATFULL

TI Method of isolating and purifying a biomacromolecule

IN Heilmann, Steven M., Afton, MN, United States

Drtina, Gary J., Woodbury, MN, United States

Eitzman, Philip D., Lake Elmo, MN, United States

Haddad, Louis C., Mendota Heights, MN, United States

Hyde, Frederick W., New Brighton, MN, United States

Johnson, Todd W., Minneapolis, MN, United States

Rasmussen, Jerald K., Stillwater, MN, United States

Williams, Michael G., Vadnais Heights, MN, United States

PA Minnesota Mining and Manufacturing Company, St. Paul, MN, United States
 (U.S. corporation)

PI US 5468847 19951121

AI US 1994-209700 19940310 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Wityshyn, Michael G.; Assistant Examiner: Degen, Nancy J.

LREP Griswold, Gary L., Kirn, Walter N., Sherman, Lorraine R.

CLMN Number of Claims: 30

ECL Exemplary Claim: 1

DRWN 7 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 1140

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides a method of separating a biomacromolecule which comprises the steps of providing a separation system including a filter element which comprises a composite filtration medium, the composite filtration medium comprising a filtration layer on the upstream surface of which are located insoluble stationary phase particulates, the particulates being capable of binding to a biomacromolecule or class of biomacromolecules, a reservoir containing a solution mixture comprising at least one biomacromolecule as solute, and a pump and associated tubing to form a closed loop assembly, and recirculation pumping the

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solution mixture through the filter cartridge so as to bind the at least one biomacromolecule to the stationary phase particulate so as to form a biomacromolecule:stationary phase particulate product. An eluting solution can be pumped through the closed loop assembly which is capable of reversing the biomacromolecule:stationary phase particulate product binding interaction so as to liberate the biomacromolecule.

=> d 5 kwic

L7 ANSWER 5 OF 5 USPATFULL on STN

SUMM Biomacromolecules are constituents or products of living cells and include proteins, carbohydrates, lipids, and **nucleic acids**. Detection and quantification as well as isolation and **purification** of these materials have long been objectives of investigators. Detection and quantification are important diagnostically, for example, as indicators of. . .

DETD . . . stationary phase particulates 12. The nonwoven filtration layer 11 which possesses uniform porosity and well-defined pores can comprise coarse upstream **prefilter** layer 13, filtration layers 14 comprising a multiplicity of nonwoven filtration layers having increasingly finer downstream porosity, and a downstream. . .

DETD . . . cm, 6.4x75.0 cm, and 18.0x100.0 cm, and possessing average nominal pore sizes of 2, 5, 10, and 20 micrometers. Smaller **disposable** capsule **filters** that are useful for smaller scale separations are available from Gelman Sciences, Inc. (Ann Arbor, Mich.) in a variety of. . .

DETD The filter elements of the present invention find utility in a variety of biological separations involving proteins, carbohydrates, lipids, **nucleic acids**, and other biological materials. Separated and **purified** macromolecules are useful therapeutic and diagnostic agents.

=> s disposable (5a) prefilter

83705 DISPOSABLE

2926 PREFILTER

L8 20 DISPOSABLE (5A) PREFILTER

=> d 1-20 ti

L8 ANSWER 1 OF 20 USPATFULL on STN

TI **Disposable** vacuum filtration funnel with integral **prefilter**

L8 ANSWER 2 OF 20 USPATFULL on STN

TI Apparatus for detecting contamination in food products

L8 ANSWER 3 OF 20 USPATFULL on STN

TI Method and apparatus for providing a purified resource in a manufacturing facility

L8 ANSWER 4 OF 20 USPATFULL on STN

TI Apparatus for providing a purified resource in a manufacturing facility

L8 ANSWER 5 OF 20 USPATFULL on STN

TI Multi-stage zonal air purification system

L8 ANSWER 6 OF 20 USPATFULL on STN

TI Energy conservation means for a controlled environment room

L8 ANSWER 7 OF 20 USPATFULL on STN

TI Flow cytometric pharmacosensitivity assay and method of cancer treatment

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L8 ANSWER 8 OF 20 USPATFULL on STN
TI Radial flow assay, delivering member, test kit, and methods

L8 ANSWER 9 OF 20 USPATFULL on STN
TI Attachment for removal of smoke in laparoscopic surgery

L8 ANSWER 10 OF 20 USPATFULL on STN
TI Attachment for removal of smoke in laparoscopic surgery

L8 ANSWER 11 OF 20 USPATFULL on STN
TI Portable isolation enclosure for use in cleaning contaminated environments

L8 ANSWER 12 OF 20 USPATFULL on STN
TI Ultraviolet air enhancement and laser plume evacuation method and system

L8 ANSWER 13 OF 20 USPATFULL on STN
TI Self-contained air enhancement and laser plume evacuation system

L8 ANSWER 14 OF 20 USPATFULL on STN
TI Filtration apparatus

L8 ANSWER 15 OF 20 USPATFULL on STN
TI Method for minimizing interference by reductants when detecting cells in biological fluids

L8 ANSWER 16 OF 20 USPATFULL on STN
TI Portable isolation enclosure for use in cleaning contaminated environments

L8 ANSWER 17 OF 20 USPATFULL on STN
TI Function test equipment for smoke and gas munitions

L8 ANSWER 18 OF 20 USPATFULL on STN
TI Water filtration device

L8 ANSWER 19 OF 20 USPATFULL on STN
TI Biologically active membrane material

L8 ANSWER 20 OF 20 USPATFULL on STN
TI ELECTROSTATIC AIR FILTER

=> d 1-3 7 bib kwic

L8 ANSWER 1 OF 20 USPATFULL on STN

Full Text

AN 2003:117580 USPATFULL
TI **Disposable** vacuum filtration funnel with integral **prefilter**
IN Zuk, Peter, JR., Harvard, MA, UNITED STATES
PI US 2003080045 A1 20030501
AI US 2002-159761 A1 20020530 (10)
PRAI US 2001-294900P 20010531 (60)
DT Utility
FS APPLICATION
LREP Peter Zuk Jr., 258 Old Littleton Rd., Harvard, MA, 01451
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 7 Drawing Page(s)
LN.CNT 557
TI **Disposable** vacuum filtration funnel with integral **prefilter**
SUMM [0002] This invention relates to the filtration field, and more

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particularly, to a disposable vacuum filtration funnel with an integral **prefilter**. Commercially available **disposable** vacuum filtration devices consist of a funnel that contains a microporous filter sealed to the funnel. The funnel may be. . . will be limited. It is therefore an object of the present invention to provide a means to add a multi-layer **prefilter** sealed to the **disposable** funnel, to increase the maximum volume of fluid that can be filtered by such an apparatus without increasing the surface. . .

- SUMM . . . problems of the prior art are solved, and the objects of the present invention are achieved, by use of the **disposable** vacuum filtration funnel with integral **prefilter** constructed in accordance with the principles of the present invention. In accordance with the present invention, the prefilter for use. . .
- DETD [0019] Although various embodiments of the **disposable** vacuum filtration funnel with integral **prefilter** constructed in accordance with the present invention are disclosed herein, each embodiment increases the maximum fluid volume that can be. . .
- DETD [0020] One embodiment of the **disposable** vacuum filtration funnel with integral **prefilter** constructed in accordance with the principles of the present invention, is shown in FIGS. 1 through FIG. 5. FIG. 1. . .
- DETD [0026] Any other combination of depth filters and microporous filters could be used to construct a **disposable** vacuum filtration funnel with integral **prefilter** in accordance with the principles of the present invention. Or the prefilter could be constructed using one or more layers. . .
- DETD [0027] A second embodiment of the **disposable** vacuum filtration funnel with integral **prefilter** constructed in accordance with the principles of the present invention, is shown in FIGS. 6, FIG. 6a, FIG. 8, and. . .
- DETD [0028] The second embodiment of the **disposable** vacuum filtration funnel with integral **prefilter** is used in the same manner as the first embodiment is, as described above.
- DETD [0029] A third embodiment of the **disposable** vacuum filtration funnel with integral **prefilter** constructed in accordance with the principles of the present invention, is shown in FIGS. 8, FIG. 8a, FIG. 9, and. . .
- DETD [0030] The third embodiment of the **disposable** vacuum filtration funnel with integral **prefilter** is used in the same manner as the first embodiment is, as described above.
- DETD [0034] From the above detailed description of the various embodiments of the **disposable** vacuum filtration funnel with integral **prefilter** it will be appreciated by those skilled in the art that a prefilter constructed in accordance with the principles of. . .

L8 ANSWER 2 OF 20 USPATFULL on STN

Full Text

AN 2001:14193 USPATFULL

TI Apparatus for detecting contamination in food products

IN Wilkins, Ebtisam S., Albuquerque, NM, United States
 Atanassov, Plamen B., Albuquerque, NM, United States
 Ivnitiski, Dmitri M., Albuquerque, NM, United States
 Abdel-Hamid, Ihab A., Albuquerque, NM, United States

PA University of New Mexico, Albuquerque, NM, United States (U.S. corporation)

PI US 6180335 B1 20010130

AI US 1999-410341 19990930 (9)

DT Utility

FS Granted

EXNAM Primary Examiner: Leary, Louise N.

LREP Ward, Calvin B.

CLMN Number of Claims: 5

ECL Exemplary Claim: 1

STN Columbus

DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
 LN.CNT 377
 DETD . . . of a measurement system 10 consisting of a disposable detection module 12 connected to a measurement and control assembly 16.
Disposable module 12 includes a **prefilter** assembly 13 having the Whatman filter 131 described above mounted therein. The blended sample is introduced through a first port. . .

L8 ANSWER 3 OF 20 USPATFULL on STN

Full Text

AN 2000:152905 USPATFULL
 TI Method and apparatus for providing a purified resource in a manufacturing facility
 IN O'Halloran, Michael D, Portland, OR, United States
 Kohne, Wilmar A, Salem, OR, United States
 Nelson, Stephen W, West Linn, OR, United States
 PA CH2M Hill Industrial Design Corporation, Portland, OR, United States (U.S. corporation)
 PI US 6146266 20001114
 AI US 1997-999710 19971117 (8)
 RLI Division of Ser. No. US 1996-727997, filed on 9 Oct 1996, now patented, Pat. No. US 5972060
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Joyce, Harold
 LREP Gotlieb, Charles E.
 CLMN Number of Claims: 12
 ECL Exemplary Claim: 1
 DRWN 8 Drawing Figure(s); 8 Drawing Page(s)
 LN.CNT 613

DETD

Exhibit A

Recirculation Air Handling Unit Specifications

Equipment name	Recirculation air-handling unit
Tag	RAH-2-1
Location Fan deck	
Prefilter	
Type	30 percent, disposable
Face velocity, maximum	500 fpm
Clean pressure drop	0.25 inch WC
Dirty pressure drop	0.5 inch WC
VOC filter (option)	
Type	Activated carbon disposable
Face velocity, . . .	

L8 ANSWER 7 OF 20 USPATFULL on STN

Full Text

AN 1998:36350 USPATFULL
 TI Flow cytometric pharmacosensitivity assay and method of cancer treatment
 IN Medenica, Rajko D., One Ocean Point, Port Royal Plantation, Hilton Head Island, SC, United States 29928
 Powell, David K., 95 Headlands Dr., Hilton Head Island, SC, United States 29926
 PI US 5736129 19980407
 AI US 1995-559812 19951117 (8)
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Walsh, Stephen; Assistant Examiner: Pak, Michael D.

STN Columbus

LREP DeWitt Ross Stevens SC
 CLMN Number of Claims: 14
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 2750

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . flow hood to a 500.0 ml sterile filter system with a 0.22 mm cellulose acetate membrane with a 60 mm **prefilter**. FBS is added with sterile **disposable** pipettes. All other ingredients listed are to be added immediately prior to use. Phenol red is used to perform a. . .

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

22.76

22.97

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FILE COVERS 1907 - 10 May 2004 VOL 140 ISS 20

FILE LAST UPDATED: 9 May 2004 (20040509/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s disposable (7a) prefilter

9744 DISPOSABLE

652 PREFILTER

L9 4 DISPOSABLE (7A) PREFILTER

=> d 1-4 ti

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

TI **Disposable** vacuum filtration funnel with integral **prefilter**

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

TI Apparatus for detecting contamination in food products

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

TI Evaluation of prototype electrofibrous filters for nuclear ventilation ducts

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

TI Field evaluation of prototype electrofibrous filters

=> file medline